

GRiffin's SCIENTIFIC CIRCULAR.

No. 7.

MARCH, 1852.

PRICE 2D.

A DESCRIPTIVE AND ILLUSTRATED CATALOGUE OF **PHOTOGRAPHIC APPARATUS, MICROSCOPES, TOOL CHESTS, CABINETS OF MINERALS, ETC.**

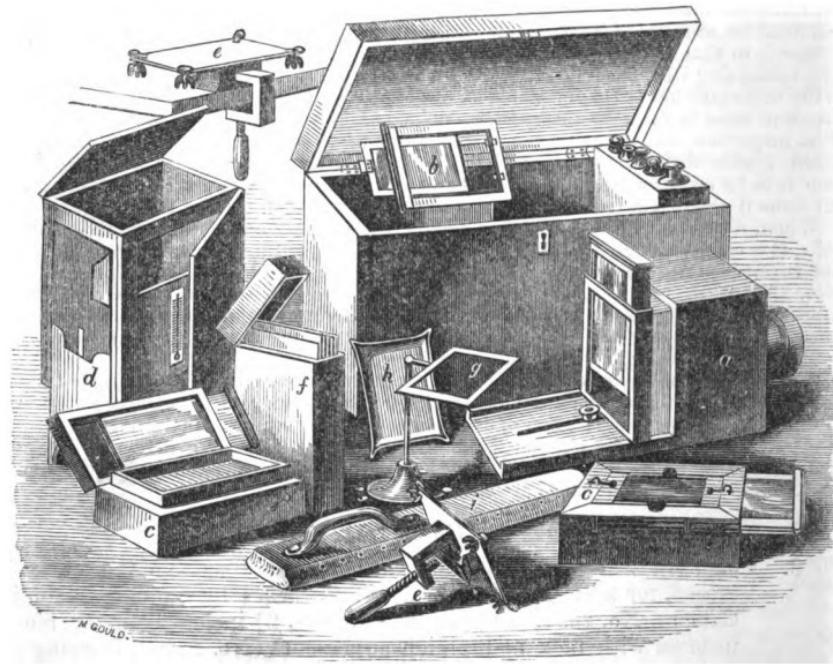
OFFERED FOR SALE AT THE AFFIXED PRICES BY

JOHN JOSEPH GRIFFIN AND COMPANY,

Chemical Museum, 53, Baker Street, Portman Square, London;

AND

RICHARD GRIFFIN & Co., GLASGOW.



DAGUERREOTYPE APPARATUS No. 2686.

The Apparatus is in all cases catalogued at the lowest cash prices. The expense of packing cases and Packing Materials is charged in addition. We employ very careful and experienced persons to pack the goods securely; but we do not hold ourselves responsible for any breakage that may take place during the carriage of the goods to their places of destination. The packing cases being charged at the cost price, and often being made expressly to fit the goods, and never having been received in a state fit to use again when returned to us empty by carriers, &c., we beg to intimate, that we cannot take them back, nor make any allowance for them.

As the Articles in this Catalogue commence with No. 2683, it is necessary to mention, that the Articles Nos. 1 to 2682 are contained in our GENERAL DESCRIPTIVE CATALOGUE OF CHEMICAL AND PHILOSOPHICAL APPARATUS, the last edition of which, including the first Six Parts of the SCIENTIFIC CIRCULAR, was published in December, 1851, in octavo, illustrated by 1200 woodcuts, price 2*s*, or post free, 2*s. 6d.*

PHOTOGRAPHIC APPARATUS.

The Cameras No. 2689, 2691, 2695, are intended for taking views, landscapes, copying pictures, and other inanimate objects, the lens with which each is fitted being mounted so that a portion of the external rays is cut off by a stop placed in front of the lens. This corrects the aberration of the rays of light passing through those parts of the lens nearest the edge. This stop gives a degree of sharpness to the pictures which cannot be produced by the double combination of lenses, and hence its general adoption for taking inanimate objects. For portraits taken from life, however, where rapidity of action is a great desideratum, the single lens is nearly useless; as the amount of light admitted by the stop is so limited that a long time is required to take a portrait, and it is difficult to keep a sitter in the same position for the necessary period. Consequently, if a Camera for portraits is required, it is necessary to select it from Nos. 2690, 2692, or 2696, or if a Camera for both portraits and views is required, then the choice must be made from Nos. 2690, 2692, or 2696; but in the latter case, the double combination of lenses must be altered for views as follows:—The posterior cell, or that nearest the ground-glass plate of the Camera containing two lenses must be removed from the mounting, and the anterior cell must be unscrewed from the mounting, and have the lens taken out of its cell and reversed, so that its plane side shall be placed nearest the object that is to be copied. A tube containing a Diaphragm with three stops, No. 2706, must now be put over the mounting in the same position as that occupied by the brass cap of the double combination, and one of the stops must be brought into action. The use of the diaphragm is easily understood from inspection, but which of the three stops is best adapted for an object intended to be taken, is more difficult to determine. It may be given as a general rule that the smallest stop is to be used for pictures to be taken from objects in sunshine—the next during sunshine if the object is in the shade, and the largest when the light is limited.

When, for the above, or any other purpose, the lenses have been removed from their cells, it is essential that they be replaced in their original position, and that the sides be not reversed. As a guide, we may mention that, in the double combination of lenses, Nos. 2703, 2704, and 2705, the least convex side of the posterior lens (or that which passes into the Camera), the concave side of the second lens, and the plane side of the anterior lens, must be all turned towards the ground-glass plate of the Camera, as must also the convex side of the single achromatic lens, Nos. 2698, 2700, or 2702.

The Camera and Lenses of the Sets of Apparatus for Calotype Processes, Nos. 2683 and 2684, are also adapted for taking pictures on silver, but for that purpose the articles enumerated after the description of the Camera in the set No. 2686 would be required. The same remark applies to the Daguerreotype sets, Nos. 2686, 2687, and 2688, which can be used for the Calotype and Collodion Processes, when the articles enumerated after the Camera in the set No. 2683 are added.

SETS OF CALOTYPE APPARATUS.

2683. COMPLETE SET OF APPARATUS FOR THE CALOTYPE AND COLLODION PROCESSES, for taking pictures measuring 7 inches by 6 inches, including a Camera, No. 2691, with achromatic lens, $2\frac{1}{4}$ inches diameter mounted in brass with rack and pinion adjustment (No. 2700), focusing glass, and frame for the sensitive paper; shallow porcelain dish for preparing the sensitive paper, and fixing the picture; two camel's-hair brushes; one quire photographic paper; one quire blotting paper; pressure frame for producing positive pictures; oil lamp, with yellow glass shade; balance, with a set of weights, and two glass capsules to contain the substance to be weighed; glass measure, and the following chemicals in stoppered bottles: acetic acid, gallic acid, ammonia, iodide of potas-

SETS OF CALOTYPE APPARATUS (*continued*).

sium, nitrate of silver, hyposulphite of soda, and bottles for solutions; the whole packed in a coloured deal case, with lock, key, and handles, 6*l.* 16*s.* 6*d.*

The Camera of this Set is equally suitable for Processes with Paper, Glass, and Silver.

2684. A similar Set of Apparatus, but of larger size, including the Camera, No. 2695, adapted to produce pictures up to 10 inches by 8 inches, 10*l.* 10*s.*
2685. COMPLETE SET OF CALOTYPE APPARATUS for obtaining pictures on paper, 7 inches by 6 inches, including a PORTABLE FOLDING CAMERA, *figs.* 2693 and 2693 *a*, mounted with achromatic lens, in massive brass front, with rack and pinion adjustment; focusing glass in frame, and frame for holding two pieces of sensitive paper; porcelain dish for preparing the paper and fixing the pictures; camel's-hair brushes; one quire photographic paper; one quire fine blotting paper; pressure frame for producing positive pictures; oil lamp, with yellow glass shade; balance, with set of weights, and two glass capsules for holding the substances to be weighed; glass measure, and a full supply of chemicals for the Calotype Process, including acetic acid, nitrate of silver, iodide of potassium, hyposulphite of soda, gallic acid, and ammonia, in strong glass bottles, with extra bottles for solutions. The whole packed in a neat coloured deal case, adapted for travelling, 7*l.* 10*s.*

The Portable Folding Camera is suitable for Landscapes only, because the focus cannot be conveniently adjusted for Portraits.

Sets of Calotype Apparatus of any other size made to order.

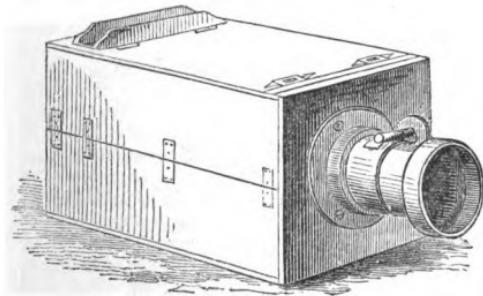
SETS OF DAGUERREOTYPE APPARATUS.

In the following sets, the silvered plates on which the pictures are obtained are not included in the price. The quantity of each size required must be ordered separately. See No. 2778, page 105.

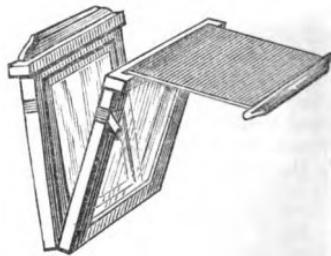
2686. COMPLETE SET OF DAGUERREOTYPE APPARATUS for pictures on plates up to 4*½* by 3*¼* inches, with best sliding camera; double combination of achromatic lenses, mounted in brass, with rack and pinion adjustment, No. 2703; three dark frames; a focusing glass; iodine and bromine apparatus; two plate boxes; two plate holders; polishing buffs; mercury box with thermometer; washing tray; spirit lamp; pliers; fixing stand, and iodine, bromide of lime, hyposulphite of soda, chloride of gold, tripoli, charcoal, mercury and naphtha, in stoppered bottles. The whole packed in two boxes, with lock, key, and handles. 8*l.* 8*s.*
2687. The same apparatus for larger plates, up to 6*¾* inches by 4*¾* inches, complete, in cases. 14*l.* 14*s.*
2688. The same apparatus for larger plates, up to 8*½* inches by 6*¾* inches, complete, in cases, 26*l.*

PHOTOGRAPHIC CAMERAS.

2689. PHOTOGRAPHIC CAMERAS, *fig. 2686 a*, so constructed as to be capable of being employed for the Daguerreotype, Calotype, and Collodion Processes. With sliding body to adapt it to lenses of different foci ; focusing glass in frame ; two frames for the prepared Calotype paper— and three frames for holding the glass plates, No. 2783, for use in the Collodion Process, and for the silvered plates, Nos. 2778, 2779 and 2780 in the Daguerreotype Process, fitted with achromatic lens, $1\frac{1}{4}$ in. diameter, mounted in brass, with rack and pinion adjustment, No. 2698, capable of producing pictures, 5 inches square, 2*l.* 17*s.* 6*d.*
2690. The same Camera, with double combination of achromatic lenses, No. 2703, 3*l.* 12*s.* 6*d.*
2691. PHOTOGRAPHIC CAMERA, *fig. 2686 a*, so constructed as to be capable of being employed for the Daguerreotype, Calotype, and Collodion Processes, with sliding body to adapt it to lenses of different foci ; focusing glass in frame ; two frames for holding the prepared Calotype paper ; three frames for containing the glass plates, Nos. 2783, and 2784 for use in the Collodion Process ; and the plates, Nos. 2779, 2780 and 2781, in the Daguerreotype process ; fitted with achromatic lens, $2\frac{1}{4}$ in. in diameter, mounted in brass with rack and pinion adjustment, No. 2699 ; capable of producing pictures 7 inches by 6 inches, 3*l.* 15*s.*
2692. The same Camera, with double combination of achromatic lenses, No. 2704, 5*l.* 7*s.* 6*d.*



2693.



2693 a.

2693. PORTABLE CALOTYPE CAMERA FOR TRAVELLERS, which packs up into a very small compass, *figs. 2693 and 2693 a*, consisting of a walnut-box, the sides of which are hinged to fold inwards ; ground focusing glass, and an improved dark frame, capable of holding the sensitive paper for taking two pictures, fitted with an achromatic lens, $2\frac{1}{4}$ inches diameter, mounted in the best manner, with rack and pinion adjustment, No. 2699, capable of producing a picture 7 inches by 6 inches, 4*l.* 4*s.*

The Portable Folding Camera is suitable for Landscapes only.

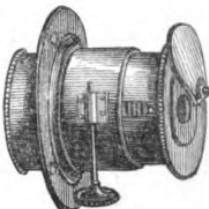
2694. PHOTOGRAPHIC CAMERA, adapted for the Calotype Process, fitted with a meniscus lens $1\frac{1}{4}$ inch in diameter, mounted in brass, with sliding adjustment, ground focusing glass in frame, and frame for the prepared paper, capable of producing pictures, 5 inches square, 1*l.* 15*s.*

2695. PHOTOGRAPHIC CAMERA, *fig. 2686 a*, so constructed as to be employed for the Daguerreotype, Calotype, and Collodion Processes, with sliding body to adapt it to lenses of different foci; focusing glass in frame, two frames for holding the prepared Calotype paper; three frames for holding the glass plates, No. 2783, 2784 and 2785, for use in the Collodion Process, and the plates 2780, 2781 and 2782, in the Daguerreotype Process, fitted with achromatic lens, $2\frac{1}{2}$ inches in diameter, mounted in brass with rack and pinion adjustment, No. 2702; capable of producing pictures 10 inches by 8 inches, 5*l. 5s.*
2696. The same Camera, with the double combination of achromatic lenses, No. 2705, 11*l. 15s.*

SINGLE ACHROMATIC LENSES.

These lenses are well adapted for the plate or paper process, where time is no object (as in taking views, inanimate objects, pictures, &c.), but for taking portraits, when a more rapid action is required, the double combination of Achromatic Lenses must be employed.

2697. Single Achromatic Lens, $1\frac{1}{4}$ inch in diameter, 7-inch focus. Price 9*s.*
2698. Ditto, mounted in brass, with rack and pinion adjustment. Price 1*l. 5s.*
2699. Single Achromatic Lens, $2\frac{1}{4}$ inches in diameter, 10-inch focus. Price 14*s.*
2700. Ditto, mounted in brass, with rack and pinion adjustment. Price 1*l. 17s. 6d.*
2701. Single Achromatic Lens, $2\frac{1}{2}$ inches in diameter, 14-inch focus. Price 1*l.*
2702. Ditto, mounted in brass, with rack and pinion adjustment. Price 2*l. 10s.*

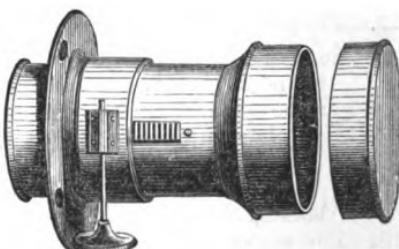


2698.

DOUBLE COMBINATION OF ACHROMATIC LENSES.

The Double Lenses are adapted for taking portraits, figures, groups, &c., as they admit a great quantity of light, and consequently produce a picture in less time than a single lens.

2703. A Double Combination of Achromatic Lenses, 1.7 inches in diameter, having a combined focus of about 4 inches, mounted in brass, with rack and pinion adjustment, producing a picture $4\frac{1}{4}$ inches by $3\frac{1}{4}$ inches. Price 2*l.*
2704. A Double Combination of Achromatic Lenses, 2.4 in. in diameter, having a combined focus of about 7 inches, mounted in brass, with rack and pinion adjustment, producing a picture $6\frac{3}{4}$ inches by $4\frac{3}{4}$ inches. Price 3*l. 10s.*
2705. A Double Combination of Achromatic Lenses, 3.2 inches in diameter, having a combined focus of about 10 inches, mounted in brass, with rack and pinion adjustment, producing a picture $8\frac{1}{2}$ inches by $6\frac{3}{4}$ inches. Price 9*l.*
2706. A Diaphragm of stops fitted to either of the above sets of Lenses, 15*s.*
The use of this Diaphragm is given in the explanatory note at page 98.
The focus of the Combination is measured from the back lens to the ground-glass, the image being received from some distant object.



2703.

MISCELLANEOUS PHOTOGRAPHIC APPARATUS.

- IMPROVED MERCURY Box** (*fig. 2686 d*), of walnut, with sliding legs, iron cistern, glass windows for inspecting the development of the picture, mounted with thermometer for ascertaining the temperature of the mercury, 3 sizes :—
- 2707. With three frames for plates up to $4\frac{1}{4}$ inches by $3\frac{1}{4}$ inches, 18s.
 - 2708. With three frames for plates, up to $6\frac{3}{8}$ inches by $4\frac{3}{4}$ inches, 1*l.* 4*s.*
 - 2709. With three frames for plates, up to $8\frac{1}{2}$ inches by $6\frac{3}{8}$ inches, 1*l.* 12*s.* 6*d.*
 - 2710. **MERCURY BOTTLE**, of box-wood, for holding the mercury necessary for use with the mercury box, 2*s.* each.
 - 2711. **DAGUERREOTYPE SPIRIT LAMP**, with screw cap, japanned tin, for heating the mercury box, 2*s.*
 - 2712. **THERMOMETER** for the mercury box, 5*s.*

IMPROVED IODINE AND BROMINE Box, in pairs (*fig. 2686 c c*), of walnut, enclosing each a stout porcelain pan : each pan is furnished with an air-tight glass cover. On the upper edge of each box is a groove for holding the plate. On withdrawing the glass cover of the iodine pan, the plate is exposed to its action, and the colour produced is observed by holding a sheet of white paper in such a position that its reflection may be seen on the plate, which enables the operator to judge of the progress of the operation. When the plate has obtained the required colour, the glass cover is pushed in, so as to cover the iodine pan, and the cover over the bromine pan is withdrawn. The plate is now removed from the iodine box and placed over the bromine box, and the colour observed as before. When the plate has received the proper amount of bromine, which is perceptible by the colour, the cover of the bromine pan is pushed in, and the plate is again placed over the iodine pan for a few seconds, until the ultimate colour required is produced, and it is then ready for removal to the camera, 3 sizes :—

- 2713. For plates up to $4\frac{1}{4}$ inches by $3\frac{1}{4}$ inches, 1*l.* 5*s.* per pair.
- 2714. For plates up to $6\frac{3}{8}$ inches by $4\frac{3}{4}$ inches, 1*l.* 16*s.* per pair.
- 2715. For plates up to $8\frac{1}{2}$ inches by $6\frac{3}{8}$ inches, 2*l.* 16*s.* per pair.

SQUARE PORCELAIN PANS, with air-tight glass cover, for either bromine or iodine mixtures ; the body and glaze firm and compact, and not liable to be acted on by any photographic compound, 3 sizes :—

- 2716. For plates up to $4\frac{1}{4}$ inches by $3\frac{1}{4}$ inches, with three plate-frames for holding the plates, 6*s.*
- 2717. For plates up to $6\frac{3}{8}$ inches by $4\frac{3}{4}$ inches, with three plate-frames for holding the plates, 7*s.* 6*d.*
- 2718. For plates up to $8\frac{1}{2}$ inches by $6\frac{3}{8}$ inches, with three plate-frames for holding the plates, 10*s.* 6*d.*
- 2719. **GRADUATED GLASS PIPETTE**, for dosing the bromine, 3*s.* 6*d.*

WALNUT BOXES, fitted with grooves for holding 12 plates, *fig. 2686 f.* .

- 2720. For holding the No. 2778 plates, 2*s.* 6*d.* each.
- 2721. For holding the No. 2779 plates, 2*s.* 6*d.* each.
- 2722. For holding the No. 2780 plates, 3*s.* each.
- 2723. For holding the No. 2781 plates, 4*s.* each.
- 2724. For holding the No. 2782 plates, 5*s.* 6*d.* each.

2725. APPARATUS FOR RESILVERING DAGUERREOTYPE PLATES by Electro-plating, consisting of a Smee's Battery, glass decomposition cell and connecting wire, with the requisite binding-screws :—for silvering plates of any size up to $4\frac{1}{4}$ inches by $3\frac{1}{4}$ inches. Price 12s. 6d.
 2726. Silver solution, for electro-plating Daguerreotype plates, per oz. 2s.

Two ounces of this solution, diluted with 18 ounces of water, form a pint of solution of the proper strength for electro-plating.

Full instructions for Electro-Plating, &c., will be found in NAPIER'S ELECTRO-METALLURGY, just published, forming Vol. XIV. of the new edition of the "Encyclo-pædia Metropolitana." Price 3s. 6d.

2727. PLATE-HOLDER, French pattern, for securing the plates firmly and conveniently (*fig. 2686 e e*), with clamp, for No. 2778 plates, 3s. 6d.
 2728. PLATE-HOLDER, for No. 2779 plates, 3s. 6d. *b*
 2729. PLATE-HOLDER, for No. 2780 plates, 3s. 6d.
 2730. PLATE-HOLDER, for No. 2781 plates, 5s.
 2731. PLATE-HOLDER, for No. 2782 plates, 6s.

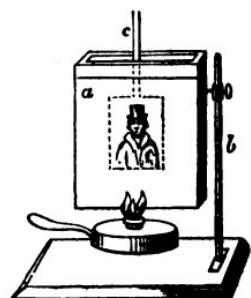


2732.

2732. APPARATUS for bending the edges of Daguerreotype plates, so as to prevent the sharp edges cutting the buffers in buffing. Price 9s.
 2733. HAND-BUFFS, covered with leather or velvet, small size (*fig. 2686 i*), per pair, in box, 9s.
 2734. HAND-BUFFS, full size (*fig. 2686 i*), per pair, in box, 12s.
 2735. FINELY-CARDED COTTON-WOOL, freed from grease, &c., price 3d. per oz.
 2736. FIXING STAND, with iron foot and levelling screws, for supporting the plates while fixing (*fig. 2686 g*), for plates up to $4\frac{1}{4}$ inches by $3\frac{1}{4}$ inches, 5s. 6d.
 2737. Ditto for plates up to $8\frac{1}{2}$ inches by $6\frac{1}{2}$ inches, 7s.

APPARATUS FOR DRYING DAGUERREOTYPE PLATES, consisting of a flat-shaped copper vessel, tinned inside; a holder for the plate, and a support (*fig. 2738*), 3 sizes :—

2738. For plates up to $4\frac{1}{4}$ inches by $3\frac{1}{4}$ inches, 7s.
 2739. For plates up to $6\frac{1}{2}$ inches by $4\frac{1}{4}$ inches, 9s.
 2740. For plates up to $8\frac{1}{2}$ inches by $6\frac{1}{2}$ inches, 10s. 6d.
 2741. GLASS FUNNEL, for filtering the fixing solution, 2 inches in diameter, 4d.
 2742. CIRCULAR FILTERS to suit the funnel, cut ready for use. The packet of 100, 7d.
 2743. STEEL PLIERS for holding the plates whilst drying off, 2s.



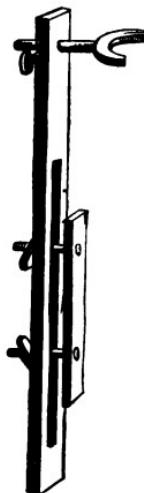
2738.

- PARALLEL MIRROR, mounted in brass, for attaching to the front of the lenses, when portraits, views, &c., are required to be taken in direct instead of reversed positions by the Daguerreotype process, 2 sizes :—
 2744. Mirror, $2\frac{1}{4}$ inches by 3 inches, mounted in brass, 2l.
 2745. Mirror, 4 inches by 3 inches, mounted in brass, 3l.

PHOTOGRAPHIC APPARATUS (*continued*).

2746. Stand for supporting the Camera in taking portraits and views, &c., for the Photographic Cameras (Nos. 2693 and 2689, *fig. 2746*), 16s.

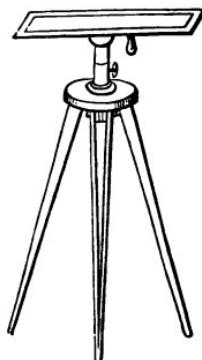
2747. Ditto for the Camera (No. 2691), 1l.



2749.

2748. Stand for supporting the Camera of the travelling Photographist; it folds up into a small compass, is very firm in use, and can be employed on uneven ground, 1l.

2749. HEAD REST, for keeping the head of the sitter steady whilst a portrait is being taken. The rest is intended to be fixed to the back of a chair (*fig. 2749*), 7s. 6d.



2746.

- MOROCCO LEATHER CASE, lined with silk velvet, fitted with oval or square gilt matt, glass, and cover (*fig. 2750*).
 2750. For plates, $2\frac{1}{2}$ inches by $2\frac{1}{2}$ inches, 15s. per dozen.
 2751. For plates, $3\frac{1}{4}$ inches by $2\frac{1}{2}$ inches, 1l. 4s. per dozen.
 2752. For plates, $4\frac{1}{4}$ inches by $3\frac{1}{4}$ inches, 1l. 10s. per dozen.



2750.

- PASSE-PARTOUT, or cardboard frames and glasses, elegantly ornamented, for holding Daguerreotype pictures (*fig. 2753*).

2753. For plates $2\frac{1}{2}$ inches by $2\frac{1}{2}$ inches, 7s. per dozen.
 2754. For plates $3\frac{1}{4}$ inches by $2\frac{1}{4}$ inches, 8s. 6d. per dozen.
 2755. For plates $4\frac{1}{4}$ inches by $3\frac{1}{4}$ inches, 9s. per dozen.
 2756. For plates $6\frac{1}{8}$ inches by $4\frac{1}{2}$ inches, 1s. 6d. each.
 2757. For plates $8\frac{1}{2}$ inches by $6\frac{1}{8}$ inches, 2s. 6d. each.



2753.

- SHALLOW PORCELAIN DISHES, with flat bottom, for containing the solutions in the preparation of paper for the Calotype Process, &c. (*fig. 2686 h.*)

2758. 5 inches by 7 inches, 1s. 6d.
 2759. 7 inches by 9 inches, 2s.
 2760. $7\frac{1}{4}$ inches by 10 inches, 2s. 6d.
 2761. 11 inches by 14 inches, 4s. 6d.

- CAMEL'S-HAIR PENCILS for photographic purposes :—

2762. $1\frac{1}{4}$ inches wide, 1s. 6d. each.
 2763. 2 inches wide, 2s. 6d. each.

2764. GRADUATED GLASS MEASURE for measuring drachms, in making the Gallo-nitrate of Silver, 1s. 6d.

PRESSURE FRAMES, for producing Positive Pictures, copying Botanical Specimens, Flowers, &c. (fig. 2765).

- 2765. For pictures 6 inches by 5 inches, 7s. 6d.
- 2766. For pictures 8½ inches by 6½ inches, 9s.
- 2767. For pictures 12 inches by 10 inches, 12s.

PRESSURE FRAME, so constructed that the development of the picture may be ascertained without shifting the paper.

- 2768. For pictures 8½ inches by 6½ inches, 12s.
- 2769. For pictures 12 inches by 10 inches, 16s.

2765.

- 2770. PRESSURE FRAME, IMPROVED, for copying Negative Collodion Pictures on glass, and adapted also for producing Positives of the Calotype process; size for glass plates up to 6½ inches by 4¾ inches, 8s.
- 2771. Ditto for plates up to the full size, 12s.

- 2772. STEAM APPARATUS FOR DEVELOPING THE PHOTOGRAPHIC PICTURE by a jet of steam, 6s.

The employment of this apparatus prevents the browning of the picture which sometimes takes place when a dry heat is employed.

- 2773. OIL LAMP, with yellow glass shade, for viewing the development of the Daguerreotype Picture, preparing paper for the Calotype, &c., 3s. 6d.

- 2774. BALANCE, and set of weights, with brass pans, in oak box, 3s.

- 2775. BALANCE, and set of weights, with steel beam of superior make, and glass pans, in mahogany box, 10s. 6d.

- 2776. DISTILLING APPARATUS for preparing pure water; a tin-plate still of one gallon capacity, with a worm-tub, complete, 16s.

- 2777. Stoneware Water Bottle, with stopcock, 1-gallon size, for holding distilled water, 4s.

SILVER PLATES FOR DAGUERREOTYPES, of a superior manufacture :—

- 2778. Size, 2½ inches by 2½ inches, 6s. 6d. per dozen.

- 2779. Size, 2½ inches by 3¼ inches, 10s. per dozen.

- 2780. Size, 3¼ inches by 4¼ inches, 14s. per dozen.

- 2781. Size, 4½ inches by 6½ inches, 17. 10s. per dozen.

- 2782. Size, 6½ inches by 8½ inches, 2l. 12s. 6d. per dozen.

[For Boxes to hold
the Plates, see Nos.
2720-2724.]

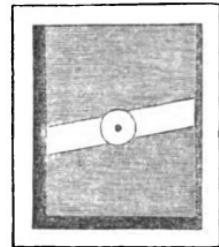
Daguerreotype plates sometimes contain so thin a layer of silver, that even with the greatest care the copper will show itself after the plate has been used to obtain two or three pictures. The plates above enumerated are of a superior description, containing one-thirtieth of silver.

GLASS PLATES for the COLLODION PROCESS. Best plate-glass, free from scratches, &c., with ground and polished edges :—

- 2783. 4¼ inches by 3¼ inches, 4s. per dozen.

- 2784. 6½ inches by 4½ inches, 6s. 6d. per dozen.

- 2785. 8½ inches by 6½ inches, 14s. per dozen.



PHOTOGRAPHIC PAPERS :—

2786. Turner's Photographic Paper, for Negative Pictures, 3s. per quire.
 2787. Canson's Photographic Paper, for Negative Pictures, 3s. per quire.
 2788. Canson's Photographic Paper, for Positive Pictures, 4s. per quire.
 2789. White Wove Filtering Paper, prepared with the greatest care, perfectly free from smalt, chlorine, lime, iron, and other common impurities, filters rapidly, and is highly absorbent, 1s. 3d. per quire.

2790. CHEMICALS FOR DAGUERREOTYPE, CALOTYPE, &c., perfectly pure, at the following prices :—

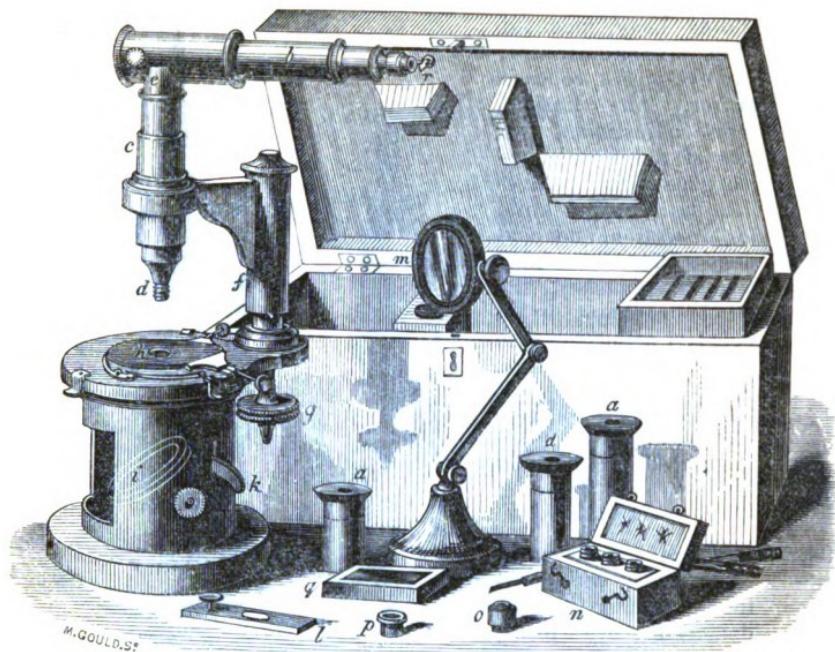
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MICROSCOPES.



ACHROMATIC MICROSCOPE, No. 2791.

The Microscopes described in the following list, are principally of FRENCH FORMS.

We have described in the Scientific Circular (No. 4, p. 57), a variety of ENGLISH PATTERNS of Microscopes, SIMPLE, COMPOUND, and ACHROMATIC. In the same number, at page 63, we have given a Catalogue of MICROSCOPIC OBJECTS.

2791. COMPOUND ACHROMATIC MICROSCOPE, with body so constructed that it can be used either vertically or horizontally; sliding coarse adjustment, tangent screw fine adjustment, two eye-pieces, three sets of achromatic object glasses, achromatic condenser, three movable diaphragms, condenser mounted on foot, concave and plain mirror, fine screw movable stage, micrometer eye-piece, stage micrometer, forceps, needle, knife; camera lucida, by which a drawing of any object under examination can easily be made; the whole enclosed in a polished mahogany cabinet with lock and key (*fig. 2791*), 16*l.* 16*s.*

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2793. Compound Achromatic Microscope with vertical sliding body, mounted on massive circular base, two eye-pieces, concave mirror, fine tangent screw adjustment, two sets of Achromatic object glasses, forceps, live-box, needles and knife for dissection, and condenser for examining opaque objects; the whole enclosed in a polished mahogany case with lock and key (*fig. 2793*), 5*l.* 5*s.*

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2794. Compound Achromatic Microscope, with vertical sliding body, detached eye-piece, concave mirror, fine tangent screw adjustment, set of Achromatic object glasses, forceps, needles and knife for dissection, in a polished mahogany box with lock and key (*fig. 2793*), 3*l.* 10*s.*

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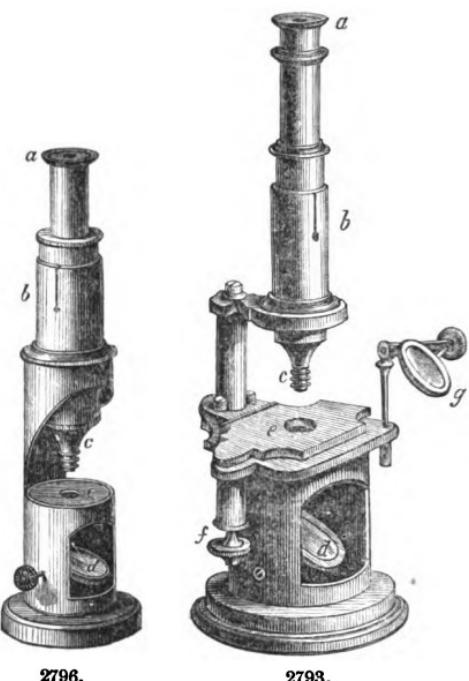
2796. Compound Microscope (*fig. 2796*), with vertical sliding body, circular stage, concave mirror, three magnifiers, forceps and two prepared microscopic objects, the whole enclosed in a polished mahogany case, 15*s.*

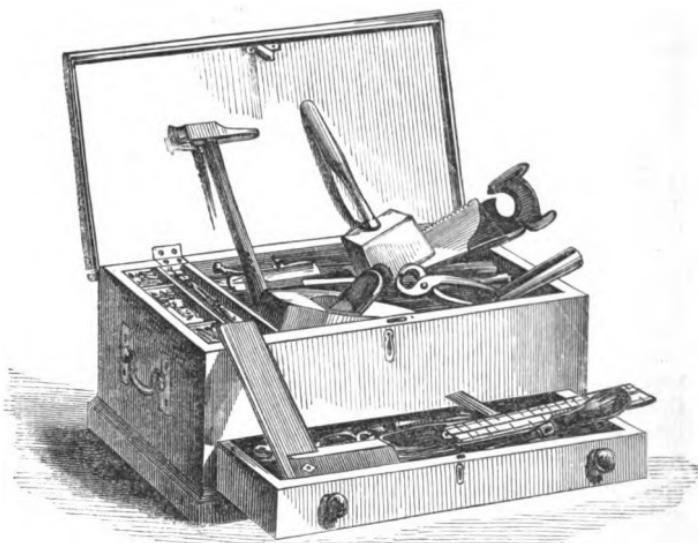
2797. Compound Microscope (*fig. 2796*), with vertical sliding body—circular stage, concave mirror—magnifier—forceps and a prepared microscopic object, the whole enclosed in a polished mahogany case, 10*s.* 6*d.*

* * * *The directions given in Griffin's Scientific Circular, No. 4 (price 2*d.* post free), for using the Compound and Simple Microscopes, (Nos. 2330 to 2340), apply also to the above forms of Microscope.*

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